

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-3. (Canceled)

4. (Currently Amended) A light emitting element comprising:

a first layer;

a second layer; and

a third layer,

wherein the first, second and third layers are interposed between mutually-facing first and second electrodes,

wherein the first layer contains a first substance expressed by either a general formula 1 or a general formula 2, and a second substance exhibiting an electron accepting ability with respect to the first substance,

wherein the second layer contains a third substance expressed by either the general formula 1 or the general formula 2, and a fourth substance exhibiting an electron donating ability with respect to the third substance,

wherein the third layer contains a light emitting substance,

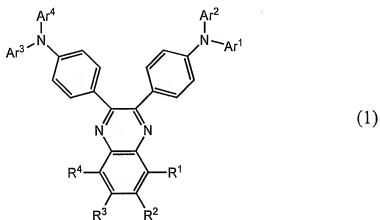
wherein the first, second and third layers are sequentially laminated,

wherein the first layer is in contact with the first electrode,

wherein the third layer is in contact with the second electrode,

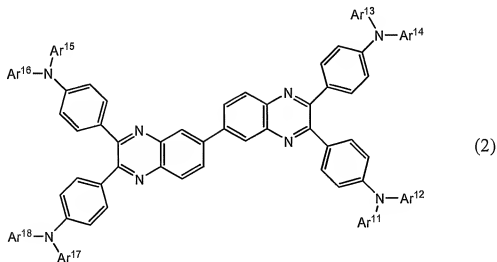
wherein when a voltage is applied to the light emitting element such that a potential of the second electrode is higher than that of the first electrode, the light emitting element emits light,

[General Formula 1]



wherein, in the general formula 1, R¹ to R⁴ each independently represents either hydrogen or an alkyl group, and Ar¹ to Ar⁴ each independently represents an aryl group having 6 to 14 carbon atoms, and

[General Formula 2]



wherein, in the general formula 2, ~~Ar⁺¹² to Ar⁺¹⁴~~ Ar⁺¹¹ to Ar⁺¹⁸ each independently represents an aryl group having 6 to 14 carbon atoms.

5. (Currently Amended) A light emitting element comprising:

a first layer;

a second layer; and

a third layer,

wherein the first, second and third layers are interposed between mutually-facing first and second electrodes,

wherein the first layer contains a first substance expressed by either a general formula 1 or a general formula 2, and a second substance exhibiting an electron accepting ability with respect to the first substance,

wherein the second layer contains a third substance expressed by either the general formula 1 or the general formula 2, and a fourth substance exhibiting an electron donating ability with respect to the third substance,

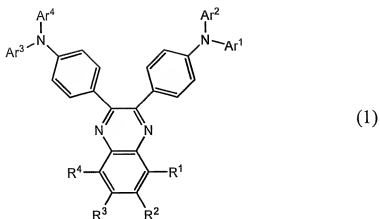
wherein the third layer contains a light emitting substance,

wherein the first layer is provided to be closer to the first electrode than the second layer,

wherein the third layer is provided to be closer to the second electrode than the second layer,

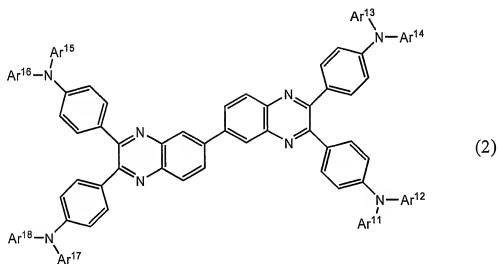
wherein when a voltage is applied to the light emitting element such that a potential of the second electrode is higher than that of the first electrode, the light emitting element emits light,

[General Formula 1]



wherein, in the general formula 1, R^1 to R^4 each independently represents either hydrogen or an alkyl group, and Ar^1 to Ar^4 each independently represents an aryl group having 6 to 14 carbon atoms, and

[General Formula 2]



wherein, in the general formula 2, Ar^{11} to Ar^{14} Ar^{11} to Ar^{18} each independently represents an aryl group having 6 to 14 carbon atoms.

6. (Original) The light emitting element according to claim 4 or claim 5, wherein the first substance is identical to the third substance.

7. (Canceled)

8. (Currently Amended) A light emitting element comprising:

a first layer containing a first substance expressed by either a general formula 1 or a general formula 2; and

a second layer containing a light emitting substance,

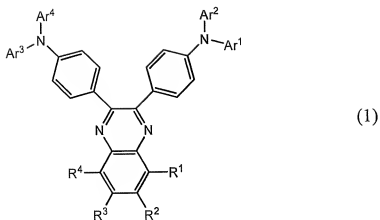
wherein the first and second layers are interposed between mutually-facing first and second electrodes,

wherein the first layer includes a first region containing a second substance that exhibits an electron accepting ability with respect to the first substance, and a second region containing a third substance that exhibits an electron donating ability with respect to the first substance,

wherein the first region is provided to be closer to the first electrode than the second region,

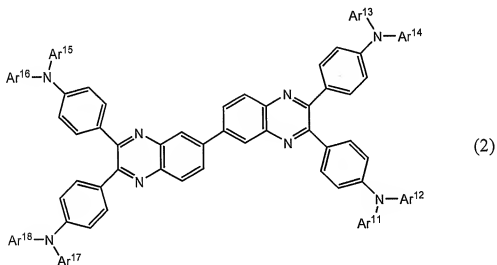
wherein when a voltage is applied to the light emitting element such that a potential of the second electrode is higher than that of the first electrode, the light emitting element emits light,

[General Formula 1]



wherein, in the general formula 1, R^1 to R^4 each independently represents either hydrogen or an alkyl group, and Ar^1 to Ar^4 each independently represents an aryl group having 6 to 14 carbon atoms, and

[General Formula 2]



wherein, in the general formula 2, Ar^{11} to Ar^{14} Ar^{11} to Ar^{18} each independently represents an aryl group having 6 to 14 carbon atoms.

9. (Currently Amended) The light emitting element according to ~~claim 7 or~~ claim 8, wherein the first layer contains the second substance or the third substance such that a molar ratio of the second substance or the third substance to the first substance is 0.5 to 2.

10. (Canceled)

11. (Currently Amended) A light emitting device, wherein a pixel portion includes the light emitting element according to any one of ~~claim 1 through claim 10~~ Claims 4, 5 and 8.

12. (Original) An electronic appliance, wherein a display portion includes the light emitting element according to claim 11.

13-16. (Canceled)

17. (Currently Amended) A light emitting element comprising:

a first layer;

a second layer; and

a third layer,

wherein the first, second and third layers are interposed between mutually-facing first and second electrodes,

wherein the first layer contains a first substance expressed by either a general formula 1 or a general formula 2, and a second substance exhibiting an electron accepting ability with respect to the first substance,

wherein the third layer contains a light emitting substance,
wherein the first, second and third layers are sequentially laminated,
wherein the first layer is in contact with the first electrode,
wherein the third layer is in contact with the second electrode,
wherein when a voltage is applied to the light emitting element such that a potential of the second electrode is higher than that of the first electrode, the light emitting element emits light,

(1)

wherein, in the case where R¹ is bonded to R² to form an aromatic ring, R¹ represents an alkyl group.

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wherein, in the case where R^2 is bonded to one of R^1 and R^3 to form an aromatic ring, R^2 represents an alkyl group,

wherein, in the case where R^2 is not bonded to one of R^1 and R^3 to form an aromatic ring, R^2 represents either hydrogen or an alkyl group,

wherein, in the case where R^3 is bonded to one of R^2 and R^4 to form an aromatic ring, R^3 represents an alkyl group,

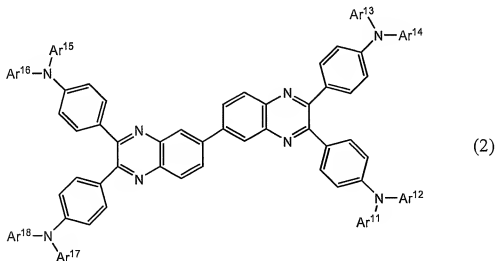
wherein, in the case where R^3 is not bonded to one of R^2 and R^4 to form an aromatic ring, R^3 represents either hydrogen or an alkyl group,

wherein, in the case where R^4 is bonded to R^3 to form an aromatic ring, R^4 represents an alkyl group, and

wherein, in the case where R^4 is not bonded to R^3 to form an aromatic ring, R^4 represents either hydrogen or an alkyl group,

wherein, in the general formula 1, and Ar^1 to Ar^4 each independently represents an aryl group having 6 to 14 carbon atoms, and

[General Formula 2]



wherein, in the general formula 2, ~~Ar¹¹ to Ar¹⁴~~ Ar¹¹ to Ar¹⁸ each independently represents an aryl group having 6 to 14 carbon atoms.

18. (Currently Amended) A light emitting element comprising:

a first layer;

a second layer; and

a third layer,

wherein the first, second and third layers are interposed between mutually-facing first and second electrodes,

wherein the first layer contains a first substance expressed by either a general formula 1 or a general formula 2, and a second substance exhibiting an electron accepting ability with respect to the first substance,

wherein the second layer contains a third substance expressed by either the general formula 1 or the general formula 2, and a fourth substance exhibiting an electron donating ability with respect to the third substance,

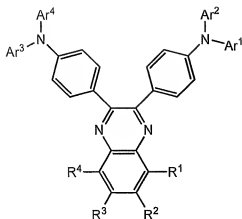
wherein the third layer contains a light emitting substance,

wherein the first layer is provided to be closer to the first electrode than the second layer,

wherein the third layer is provided to be closer to the second electrode than the second layer,

wherein when a voltage is applied to the light emitting element such that a potential of the second electrode is higher than that of the first electrode, the light emitting element emits light,

[General Formula 1]



(1)

wherein, in the general formula 1, at least one of pairs of R¹ and R², R² and R³, and R³ and R⁴ is bonded to form an aromatic ring,

wherein, in the case where R¹ is bonded to R² to form an aromatic ring, R¹ represents an alkyl group.

wherein, in the case where R¹ is not bonded to R² to form an aromatic ring, R¹ represents either hydrogen or an alkyl group.

wherein, in the case where R² is bonded to one of R¹ and R³ to form an aromatic ring, R² represents an alkyl group.

wherein, in the case where R² is not bonded to one of R¹ and R³ to form an aromatic ring, R² represents either hydrogen or an alkyl group.

wherein, in the case where R³ is bonded to one of R² and R⁴ to form an aromatic ring, R³ represents an alkyl group.

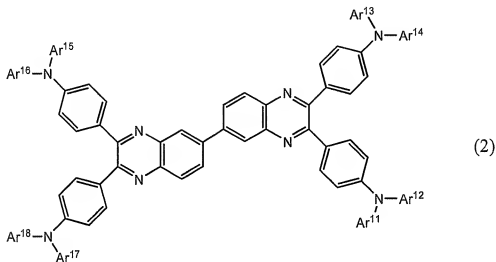
wherein, in the case where R³ is not bonded to one of R² and R⁴ to form an aromatic ring, R³ represents either hydrogen or an alkyl group.

wherein, in the case where R⁴ is bonded to R³ to form an aromatic ring, R⁴ represents an alkyl group, and

wherein, in the case where R^4 is not bonded to R^3 to form an aromatic ring, R^4 represents either hydrogen or an alkyl group.

wherein, in the general formula 1, and Ar^1 to Ar^4 each independently represents an aryl group having 6 to 14 carbon atoms, and

[General Formula 2]



wherein, in the general formula 2, ~~Ar^{11} to Ar^{14}~~ Ar^{11} to Ar^{18} each independently represents an aryl group having 6 to 14 carbon atoms.

19. (Currently Amended) A light emitting element comprising:

a first layer containing a first substance expressed by either a general formula 1 or a general formula 2; and

a second layer containing a light emitting substance,

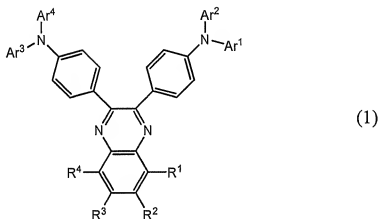
wherein the first and second layers are interposed between mutually-facing first and second electrodes,

wherein the first layer includes a first region containing a second substance that exhibits an electron accepting ability with respect to the first substance, and a second region containing a third substance that exhibits an electron donating ability with respect to the first substance,

wherein the first region is provided to be closer to the first electrode than the second region,

wherein when a voltage is applied to the light emitting element such that a potential of the second electrode is higher than that of the first electrode, the light emitting element emits light,

[General Formula 1]



wherein, in the general formula 1, at least one of pairs of R^1 and R^2 , R^2 and R^3 , and R^3 and R^4 is bonded to form an aromatic ring,

wherein, in the case where R^1 is bonded to R^2 to form an aromatic ring, R^1 represents an alkyl group.

wherein, in the case where R^1 is not bonded to R^2 to form an aromatic ring, R^1 represents either hydrogen or an alkyl group.

wherein, in the case where R^2 is bonded to one of R^1 and R^3 to form an aromatic ring, R^2 represents an alkyl group.

wherein, in the case where R^2 is not bonded to one of R^1 and R^3 to form an aromatic ring, R^2 represents either hydrogen or an alkyl group,

wherein, in the case where R^3 is bonded to one of R^2 and R^4 to form an aromatic ring, R^3 represents an alkyl group,

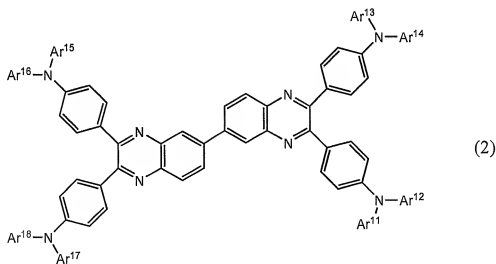
wherein, in the case where R^3 is not bonded to one of R^2 and R^4 to form an aromatic ring, R^3 represents either hydrogen or an alkyl group,

wherein, in the case where R^4 is bonded to R^3 to form an aromatic ring, R^4 represents an alkyl group, and

wherein, in the case where R^4 is not bonded to R^3 to form an aromatic ring, R^4 represents either hydrogen or an alkyl group,

wherein, in the general formula 1, and Ar^1 to Ar^4 each independently represents an aryl group having 6 to 14 carbon atoms, and

[General Formula 2]



wherein, in the general formula 2, Ar^{11} to Ar^{14} Ar^{11} to Ar^{18} each independently represents an aryl group having 6 to 14 carbon atoms.

20. (Previously presented) A light emitting element according to claim 17, wherein the first substance is identical to the third substance.

21. (Previously presented) A light emitting element according to claim 18, wherein the first substance is identical to the third substance.

22. (Previously presented) A light emitting element according to claim 19, wherein the first layer contains the second substance or the third substance such that a molar ratio of the second substance or the third substance to the first substance is 0.5 to 2.